

Q6. Spawner-recruit function

Uncertainties / Issues:

Density-dependence

- Results consider different levels of density dependence, productivity

Fits to data

Goodness of fit statistics:

Model	Statistics (lower values are better)		
	SSQ	AIC	BIC
Delta	112.4	802.38	1146.9
Alpha	264.6 to 302.6	1042.14 to 1096.59	1170.34 to 1224.79

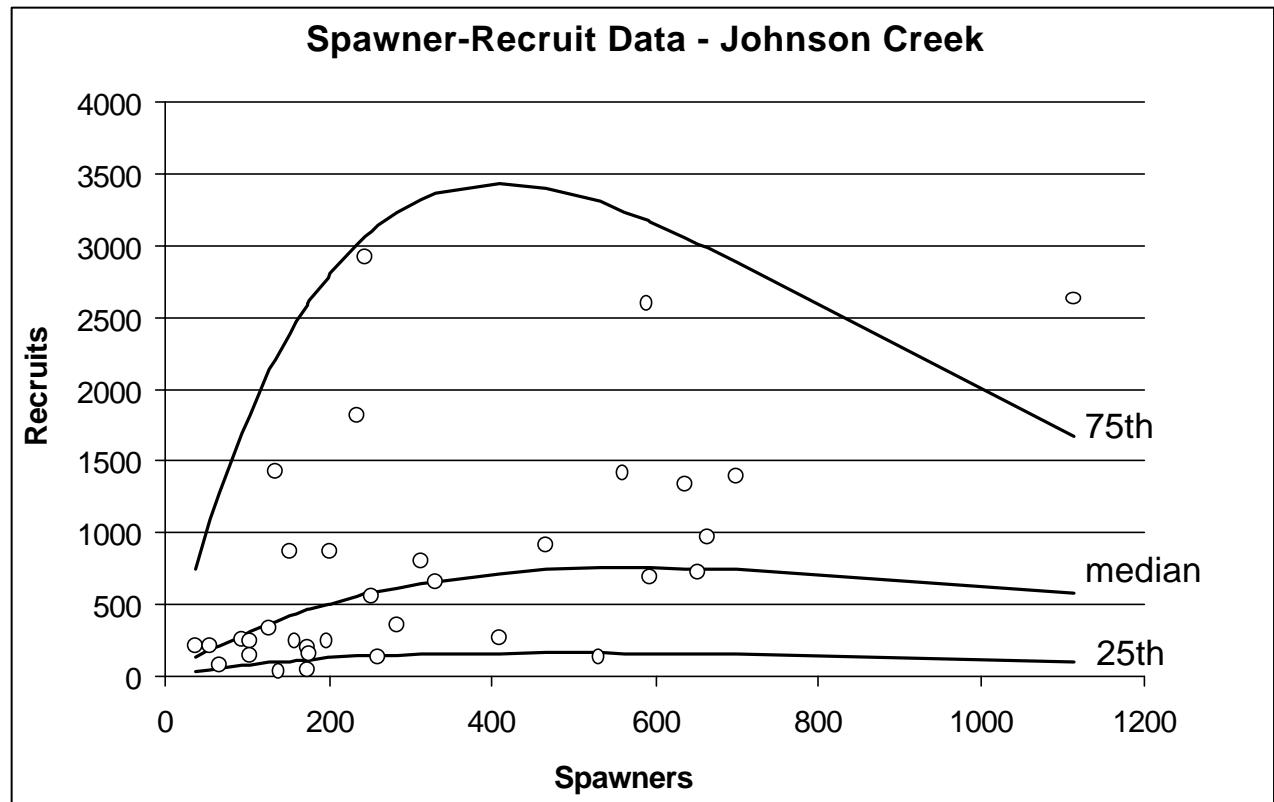
Depensation

- Stock-recruitment function allows for depensation; little detected in data
- Sensitivity analysis:
 - depensation imposed when # spawners < observed minimum
 - minimal effects on results¹
- Further sensitivity analyses proposed for FY99

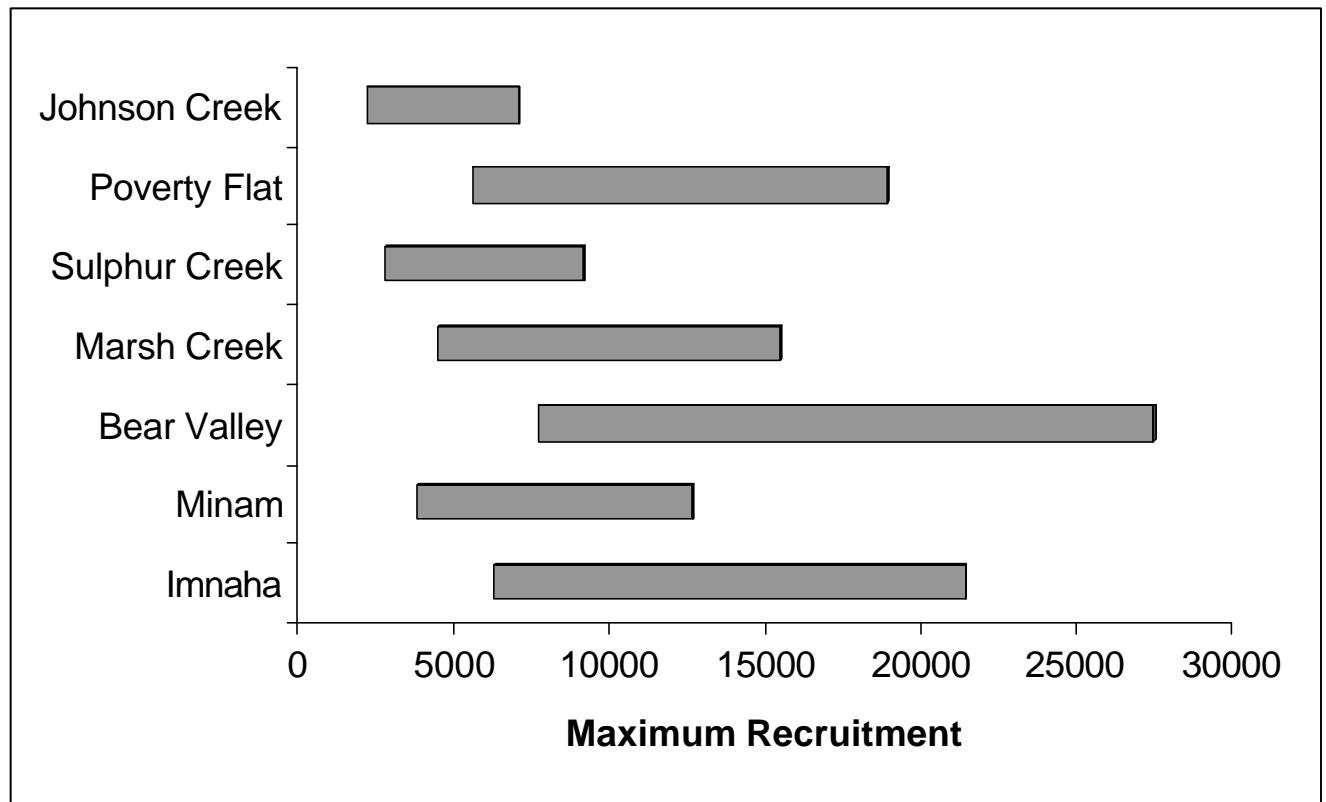
Spawner Measurement Error

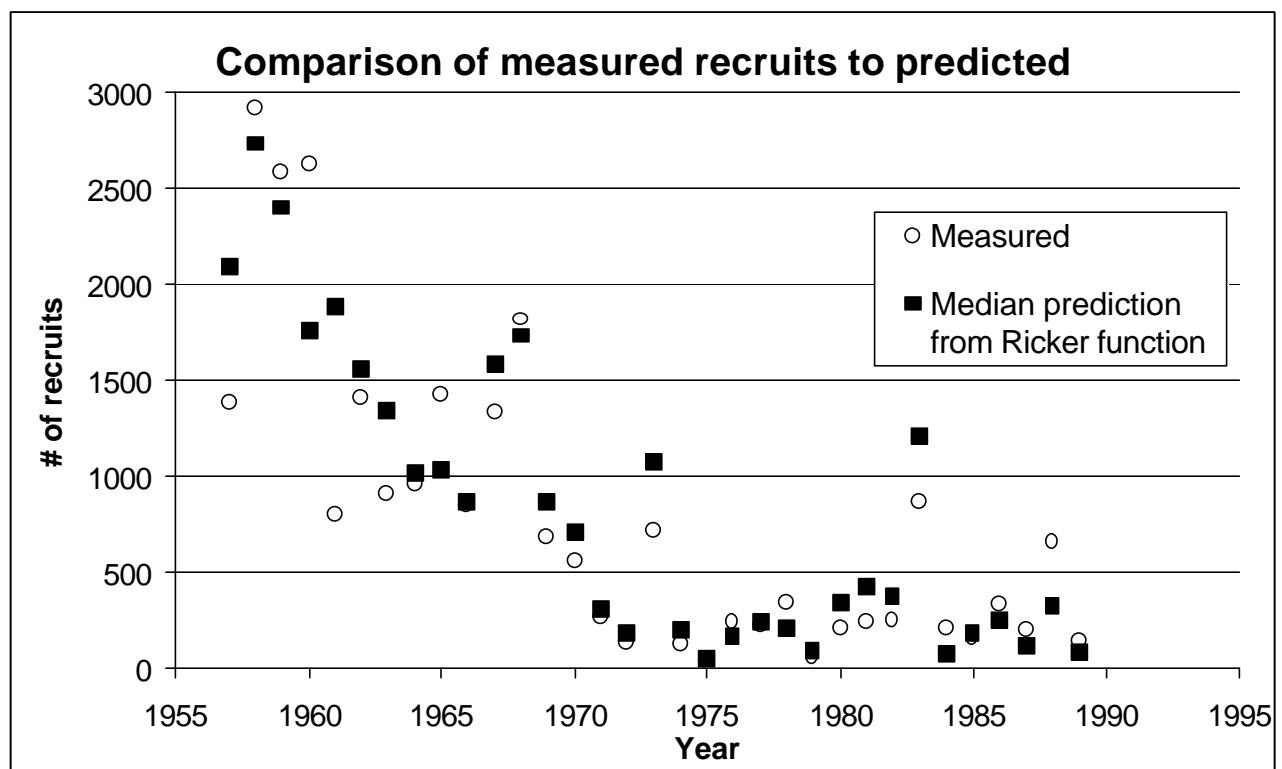
- Current spawner-recruit models do not explicitly consider spawner measurement error
- Sensitivity analysis
 - explicit consideration of stream-specific spawner measurement error
 - minimal effects on results¹

¹ FY97 Report, Deriso Table 9



Range (25th and 75th percentiles) of Maximum Recruitment
Predicted by Spawner-Recruit Function





Sensitivity Analysis – Depensation (high d values = greater depensation)

Recruitment as function of depensation parameter P

